Abstract

~~The invention relates to a~~ A toroidal gearbox~~, comprising~~ in which an annular central disc with a toroidal friction surface and an annular main cylinder of a hydraulic pressure device are located ~~, each fixed~~ concentrically to a central shaft. ~~The main cylinder, supported on an axial counter-bearing, is provided with a~~ A radial partition wall is provided between the central disc and the main cylinder to form two working pressure chambers, ~~in each of which an axial pressure piston is arranged,~~ the pressurization of which results in ~~an~~ axial ~~operation~~ displacement of the central disc ~~arranged to be axially displaced~~ relative to the central shaft to apply contact ~~, such that~~ pressure forces ~~may be brought to bear~~ on the friction surface. ~~The main~~ A pressure piston~~, lying on the front face of~~ between the partition wall and the main cylinder having ~~facing away from the central disc, comprises~~ an axial projection ~~as mechanical operating means,~~ effectively bypasses ~~bypassing~~ the partition wall and ~~which~~ acts on the central disc, in addition to the ~~operation thereof by the second~~ pressure applied in the pressure chamber between the partition wall and the central disk, thereby achieving ~~piston, lying on the side of the partition wall facing the central disc. An~~ an even distribution of the operating force in the circumferential direction, as exerted on the central disc, by the ~~main~~ pressure piston~~, may be achieved, whereby the axial projection of the main pressure piston has an annular embodiment coaxial to the pressure piston and also projects through the central opening of the partition wall (fig. 1) or radially overlaps the partition wall~~.